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Eagle Point Solution to a Frequently Asked Question

How to Export Data for Pond Design Storage Calculations

Summary:
Eagle Point can extract stage/storage information from the original ground surface model for use in designing a pond or storage structure. This document provides the tools for making that information useable for SITES or HydroYardage software.

Product: Eagle Point Software™ 2001
Release: 2001 Q4 or 1.4.0 and greater
Platform: All
Related documents:

As always, should you have any questions regarding any phase of installation, contact Eagle Point Technical Assistance at (800) 477-0909.

Eagle Point Steps Using the NRCS/EP Customized Menu

Notation Method
Button to Press *Displayed Text* **Icon** Action {Text to Enter} *Menu Item…*

Extracting Pool Area Data to a SAP File

1. In AutoCAD, click on the **Layer Manager Icon**.
2. Select the *1.Bndr* layer. Set to Current.
3. Click OK to close out of Layer Manager.
4. Click **Polyline** and draw a border that defines the limits of the storage area. To close the line cleanly, type {C} and press Enter.
5. From AutoCAD, click *NRCS/EP… Reservoir Detention….*
6. If you have not already created a Watershed Modeling Scenario, the Manage Scenarios box comes up. Click **New Scenario**.
7. Input a name. E.g. {Bear Creek 33}. Click OK.
8. Click Close.
9. Edit Reservoir appears. Click the **Folder Icon** by the Name line.
10. Click **New Reservoir**.
11. Input a name. E.g. {BC 33 Dam1}. Click OK.
12. Click Close. *BC 33 Dam 1* will appear in the name line.
13. Pull down Storage Method to *User-Defined Storage.*
14. Click Storage Parameters….
15. Click Generate from Surface Model….
16. Pull down Surface Model to *Ognd*.
17. Input the Maximum elevation that you want to get storage up to. E.g. {1110}.
18. Input the contour interval at which you want get volumes. E.g. {2.0}.
19. Click on the boundary that you had drawn.

20. Take note of the minimum elevation that was generated. E.g. {1064.2}.
21. Click Close.
22. Input the minimum elevation, maximum elevation, and increment into the Rating curve limits. E.g. {1064.2}, {1110}, {2}.
23. Click Apply.
24. Click the **Folder Icon** by the Name line.
25. Click Export…
26. Pull down Save as type: to *Stage Storage from Surface Model(*.SAP)*
27. Input a filename. E.g. {BC33 dam1}. Click Save.
28. Click Close.
29. Click Close.

Converting Pool Area Data to HydroYardage or SITES

1. Open the *Convert EP Pool Data.xls* spreadsheet.
2. Click Enable Macros.
3. Input the County, State, Rainfall Distribution, and Designer for this project.
4. Review the default for the location of HydroYardge Program on your computer. The CCE installation default location is "C:\Program Files\USDA\PondHy\Hydroy."
5. Click Run EP Pool Data Conversion.
6. Click Select a File.
7. Browse to the location of the .SAP file. Select the file and click Open.
8. Review the Elevation vs. Area data to ensure that you have the correct information.
9. Input a Project Name. E.g. {BC33 Dam 1}.
10. Click on the Output Format that you would like to have created: HydroYardage, SITES, or Both.
11. Click Convert.
12. For SITES Projects:
    a. Browse to the location where you would like to save the tab delimited Structure data table.
    b. Input a name for the file. E.g. {BC33 Dam1}.
    c. Click Save. Click OK.

    Note: This file can be imported into SITES at the Structure Data Table screen by using File… Import… and browsing to the .txt file.
13. For HydroYardage Projects:
    a. Click Find Cross Section Data if you have used the Coordinate Extractor tool to create a Station/Elevation tab delimited file in the .ras format for the section on centerline of the dam. This allows you compute an earthwork quantity within the HydroYardage program.
        i. Browse to the location where you saved the .ras Station/Elevation cross-section file.
        ii. Highlight the filename E.g. {BC33 Dam1} and click Open.
        iii. Review the data for completeness and click Use this data.
        iv. Click OK.
        v. Click OK and note the name of the HydroYardage project file that has been added to the list of existing jobs.

    Or

    b. Click Pool Area Data Only if you want to import only the elevation vs. pool area data.
        i. Click OK and note the name of the HydroYardage project file that has been added to the list of existing jobs.
14. If done converting files, click Quit and close the spreadsheet.

Submitted by Norman Friedrich.